



Sindh Technical Education & Vocational Training Authority
(STEVTa)
Government of Sindh



**ESTABLISHMENT OF GOVERNMENT
POLYTECHNIC INSTITUTE FOR GIRLS AT NORTH
NAZIMABAD TOWN, KARACHI
(REMAINING WORK)**

BILL OF QUANTITIES



**SHAHZAD
ASSOCIATES**
CONSULTING ARCHITECTS, ENGINEERS & PLANNERS

KARACHI OFFICE :- 2ND FLOOR, FARZANA BUILDING, SHAHEED-E-MILLAT ROAD,
KARACHI. TEL: 4348851 - 4388857, FAX: (021) 4530754, E-MAIL: shahzadarch@yahoo.com
ISLAMABAD OFFICE :- 66, STREET NO. 59, 1/8-3, ISLAMABAD. PH: 444741
QUETTA OFFICE: 4-B, 1ST FLOOR, HASSAN APARTMENTS, PATEL BAGH, QUETTA. PH: 839033

**ESTABLISHMENT OF GOVT. POLYTECHNIC INSTITUTE FOR GIRLS, AT NORTH NAZIMABAD
TOWN, KARACHI (REMAINING WORK)**

SUMMARY OF COST

S #	SUB HEAD	TOTAL AMOUNT
1	Cost of Civil Work (Scheduled Items) (Page No. 02 - 07)	Rs=
2	Cost of Civil Work (Non-Scheduled Items) (Page No. 08 - 08)	Rs=
	Sub Total of Civil Work	(A)
3	Cost of Plumbing Work (Scheduled Items) (Page No. 09 - 11)	Rs=
4	Cost of Plumbing Work (Non-Scheduled Items) (Page No. 12 - 13)	Rs=
	Sub Total of Plumbing Work	(B)
Total Cost of Work (A+B) =		Rs=

**ESTABLISHMENT OF GOVT. POLYTECHNIC INSTITUTE FOR GIRLS, AT NORTH NAZIMABAD
TOWN, KARACHI (REMAINING WORK)**

CONSTRUCTION WORK BILL OF QUANTITIES

(Civil Works)

Sindh Schedule of Rates 2012

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
1	EXCAVATION IN FOUNDATION Excavation in Ordinary Soil in foundation of Building Bridges and other structures including dagbelling dressing, refilling around structure with excavated earth watering and ramming lead upto 5 ft. (Page No. 4, Item No. 18-b)	1,000.00	%0Cft	3,176.25	3,176.25
2	IMPORTED EARTH FILL Filling, watering and ramming earth under floor with new earth (excavated from outside) lead upto one chain and lift upto 5 feet. (Page No. 4, Item No. 22)	2,000.00	%0Cft	3,630.00	7,260.00
3	SUPPLY OF RIVER / PIT Supply of clean / screened (river or pit) sand within 5 chains including removal of top crust of earth or over burden and royalty to the Government or cost to the Private Owner. (Page No. 6, Item No. 36)	2,000.00	%Cft	420.00	8,400.00
	Add: extra lead 6 mile (referred from carriage of materials schedule)	2,000.00	%Cft	771.96	15,439.20
4	TERMITE PROOFING Providing anti-termite treatment by spraying / sprinkling / spreading Neptachler 0.5% Emulsion as an overall pre-construction treatment in slab type construction under the slab and attached perches or entrances etc. complete in all respect as per directions of the Engineer-in-Charge (Page No. 108, Item No. 92)	10,000.00	Per Sft	9.74	97,400.00
5	RCC WORK Reinforced cement concrete work including all labour and material except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rate also includes all kinds of forms moulds lifting shuttering curing rendering and finishing the exposed surface (including screening and washing of shingle) Page No. 15. Item No. 6.				

ESTABLISHMENT OF GOVT. POLYTECHNIC INSTITUTE FOR GIRLS, AT NORTH NAZIMABAD TOWN, KARACHI (REMAINING WORK)

CONSTRUCTION WORK BILL OF QUANTITIES

(Civil Works)

Sindh Schedule of Rates 2012

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	R.C. work in roof slab, beams columns rafts, lintels and other structural members laid in situ or precast laid in position complete in all respects.				
a	Beam & Lintels - Ratio (1:2:4) 90 lbs cement 2 cft sand 4 cft shingle ½" to ¼" gauge.	1,200.00	Per Cft	337.00	404,400.00
b	Slabs & Projection (6" thick) - Ratio (1:2:4) 90 lbs cement 2 cft sand 4 cft shingle ½" to ¼" gauge.	3,200.00	Per Cft	337.00	1,078,400.00
c	Sun Shade (4" thick) - Ratio (1:2:4) 90 lbs cement 2 cft sand 4 cft shingle ½" to ¼" gauge.	100.00	Per Cft	337.00	33,700.00
d	Columns Super Structure 1:2:4	500.00	Per Cft	337.00	168,500.00
6	STEEL REINFORCEMENT Fabrication of mild steel reinforcement for cement concrete including cutting, bending, laying in position making joints and fastenings including cost of binding wire (also includes removal of rust from bars) Page No. 16, Item No. 8-b.				
	Using Tor Bars	315.00	Per Cwt	5,001.70	1,575,535.50
7	G.I.FRAMES FOR DOOR Providing and fixing G.I. Frames / Choukhats of size 7" X 2" or 4½ X 3" for door using 20 gauge G.I. sheet including welded hinges and fixing at site with necessary hold fasts, filling with cement sand slurry of ratio 1:6 and repairing the jambs. The cost also includes all carriage tools and plants used in making and fixing. (Page No. 92, Item No. 29)	300.00	Per Rft	228.90	68,670.00
8	FLUSH DOOR First class deodar wood wrought, joinery in doors and windows etc. fixed in position including chowkats hold fasts hinges, iron tower bolts, chocks cleats handles and cords with hooks, etc. (Page No. 57, Item No. 7b) Rate of Door: Rs. 1,227.36 - G.I. Frame Rs. 228.90 = Door & Windows (Rs. 998.46)	450.00	Per Sft	998.46	449,307.00

**ESTABLISHMENT OF GOVT. POLYTECHNIC INSTITUTE FOR GIRLS, AT NORTH NAZIMABAD
TOWN, KARACHI (REMAINING WORK)**

CONSTRUCTION WORK BILL OF QUANTITIES

(Civil Works)

Sindh Schedule of Rates 2012

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
9	ALUMINUM WINDOWS / VENTILATORS Supply & fixing Deluxe Model (Bronze) in position Aluminum channels framing for sliding windows & ventilators of Alcop made with 5mm thick tinted glass glazing (Belgium) & Aluminum fly screen including handless stoppers & locking arrangement etc. complete (Page No. 107, Item No. 84(b))	750.00	Per Sft	1,647.69	1,235,767.50
10	BLOCK MASONRY (6" THICK) Providing and laying 1:3:6 cement concrete solid block masonry wall 6" and below in thickness set in 1:6 cement mortar in ground floor super structure including raking out joints and curing etc. complete. (Page No. 18, Item No. 24)	3,250.00	%Cft	15,771.01	512,557.83
11	TILES Laying floor of approved with glazed / porcelain tile ¼" thick in white cement 1:2 over ¾" thick cement mortar 1:2. complete. (Page No. 42, Item No. 24)	6,750.00	%Sft	27,678.86	1,868,323.05
12	White glazed tiles ¼" thick dado jointed in white cement and laid over 1:2 cement sand mortar ¾" thick including finishing. (Page No. 44, Item No. 37)	1,500.00	%Sft	28,253.61	423,804.15
13	PRIMING COAT Priming coat of chalk distemper (Page No. 53, Item No. 22)	19,050.00	%Sft	442.75	84,343.88
14	DISTEMPERING Preparing surface and painting with Distemper- 1st coat over priming coat (Page No. 53, Item No. 24-c) 3 Coats	6,400.00	%Sft	1,079.65	69,097.60

ESTABLISHMENT OF GOVT. POLYTECHNIC INSTITUTE FOR GIRLS, AT NORTH NAZIMABAD TOWN, KARACHI (REMAINING WORK)

CONSTRUCTION WORK BILL OF QUANTITIES

(Civil Works)

Sindh Schedule of Rates 2012

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
15	INTERNAL WALL PAINTING Preparing the surface and painting with matt finish including rubbing the surface with bathy (silicon carbide rubbing brick) filling the voids with zink / chalk / plaster of paris mixture, applying first coat premix, making the surface smooth and then painting 3 coats with matt finish of approved make etc. complete (new surface). Page No. 54, Item No. 36-b. (3 Coats)	9,050.00	%Sft	3,444.38	311,716.39
16	WEATHER COAT Preparing the surface and painting with weather coat i/c rubbing the surface with rubbing brick / sand paper, filling the voids with chalk / plaster of paris and then painting with weather coat of approved make. (Page No. 55, Item No. 38-a&b)	5,000.00	%Sft	2,567.95	128,397.50
17	ENAMEL PAINT ON WOOD WORKS Preparing surface and painting of doors and windows any type (including edges) 3 Coats (Page No. 68, Item No. 5-C-i+ii)	900.00	%Sft	2,116.41	19,047.69
18	ENAMEL PAINT ON IRON WORKS Painting guard bars, gates iron bars gratings, railing including standard braces etc. and similar open work (3 Coats) Page No. 68, Item No. 4-d-ii)	2,200.00	%Sft	977.40	21,502.80
19	FALSE CEILING Supplying and fixing false ceiling of plaster of paris in panels including making frame work of deodar wood including painting with soligia paint. (Page No. 63, Item No. 52)	300.00	%Sft	25,293.42	75,880.26
20	WOODEN ARCHITRAVE Providing and fixing with sunk iron screws wooden Architrave approved design / shape having width not less than 2½ inches as directed by Engineer-in-Charge. (Page No. 65, Item No. 60)	600.00	Per Rft	49.97	29,982.00

**ESTABLISHMENT OF GOVT. POLYTECHNIC INSTITUTE FOR GIRLS, AT NORTH NAZIMABAD
TOWN, KARACHI (REMAINING WORK)**

CONSTRUCTION WORK BILL OF QUANTITIES

(Civil Works)

Sindh Schedule of Rates 2012

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
21	GLAZED CERAMIC TILE (BATHROOM) Laying floors of approved coloured glazed tiles ¼" thick laid in white cement and pigment on a bed of ¾" thick cement mortar 1:2. (Page No. 42, Item No. 25)	1,600.00	%Sft	27,747.06	443,952.96
22	Glazed tile dado ¼" thick laid in pigment over 1:2 cement sand mortar ¾" thick including finishing. (Page No. 44, Item No. 38)	3,900.00	%Sft	28,299.30	1,103,672.70
23	SURFACE RENDERING Cement Plaster 1:5 upto 12' height				
	¾" thick Plaster (Page No. 51, Item No. 12-a)	5,000.00	%Sft	2,166.72	108,336.00
a	½" thick <u>Internal Wall Plaster</u> (Page No. 51, Item No. 12-b)	9,050.00	%Sft	2,241.80	202,882.90
b	¾" thick <u>External Wall Plaster</u> (Page No. 51, Item No. 12-c)	5,000.00	%Sft	2,678.50	133,925.00
24	IRON GRILL Providing and fixing iron steel grill using solid square bars of size ½" X ½" placed at 4" including and frame of flat iron patti of ¾" X ¾" including circle shape at 1-0 apart equivalent fitted with screws are pins with painting 3 coats with 1st coat of red oxide paint etc. (Page No. 93, Item No. 30)	1,450.00	Per Sft	194.16	281,532.00
25	PAVING BLOCKS Providing and fixing cement paving blocks flooring having size of 197 X 197 X 80 (mm) of city / quddra . Cobble shape with pigmented having strength between 5000 psi to 8500 psi including filling the joints with hill sand and laying in specified manner / pattern and design etc. complete (Page No. 49, Item No. 74)	3,500.00	Per Sft	248.17	868,595.00

**ESTABLISHMENT OF GOVT. POLYTECHNIC INSTITUTE FOR GIRLS, AT NORTH NAZIMABAD
TOWN, KARACHI (REMAINING WORK)**

CONSTRUCTION WORK BILL OF QUANTITIES

(Civil Works)

Sindh Schedule of Rates 2012

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
26	KERB STONE Providing and fixing Precast Edge Block 3750 PSI Industrial made size 6" thick x 12" long x 18" high including the cost of cartage, excavation, form work for haunching 1450 PSI lean concrete, 2250 PSI concrete for huanching, 1:4 cement sand mortar. VOL-III (Part-VI) (Page No. 15, Item No. 14)	600.00	Per Rft	297.01	178,206.00
27	ROOF SCREEDING a Providing and laying 3" thick topping cement concrete (1:2:4) including surface finishing and dividing into panels. (Page No. 41, Item No. 16-d)	6,400.00	%Sft	4,411.82	282,356.48
b	Two coats of bitumen laid hot using 34 lbs for %Sft over roof and blinded with sand at one Cft Per %Sft. (Page No. 34, Item No. 13)	6,400.00	%Sft	1,887.40	120,793.60
Sub Total				Rs=	12,414,861.23
_____ above / below					
Cost of Civil Work (Scheduled Items)					

**ESTABLISHMENT OF GOVT. POLYTECHNIC INSTITUTE FOR GIRLS, AT NORTH NAZIMABAD
TOWN, KARACHI (REMAINING WORK)**

CONSTRUCTION WORK BILL OF QUANTITIES

Non-Schedule Items (Civil Work)

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
28	ROOM DOOR LOCKS Providing and fixing with C.P brass screws carona, yale lock of approved design, manufacturer, and colour Japan make, cutting wood to required shape and size with three operating keys. complete in all respect as per specification, drawings and instructions of the Engineer-in-Charge.	5	Each		
29	DOOR CLOSER Providing and fixing with brass screws or specially supplied screws hydraulic door closer Rayobi, Yale or approved manufacturer Japan make, cutting wood etc to required shape and size. Complete in all respect as per specification, drawings and instructions of the Engineer-in-Charge.	2	Each		
30	HANDRAILING Providing, fabricating and fixing staircase railing with 2" dia S.S. 16" handrail gauge and 1½" dia balustrade and ½" dia intermediate horizontal bars etc. complete hand railing as per detail on drawing embedded properly in RCC works. Complete in all respect as per drawings, specification and instructions of the Architect / Engineer-in-Charge.	50.00	P.Rft		
Cost of Civil Work (Non-Schedule Items)				Rs=	

**ESTABLISHMENT OF GOVT. POLYTECHNIC INSTITUTE FOR GIRLS, AT NORTH NAZIMABAD
TOWN, KARACHI (REMAINING WORK)**

CONSTRUCTION WORK BILL OF QUANTITIES (Plumbing Works)
Sindh Schedule of Rates 2012

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
31	PAKISTANI WC Providing and fixing squatting type white glazed earthen ware W.C. Pan with front flush inlet and complete with including the cost of flushing cistern with internal fitting and flush pipe with bend and making requisite number of holes in walls plinth and floor for pipe connection and making good in cement concrete 1:2:4 (foreign equivalent) with 4" dia C.I. Trap (Page No. 1, Item No. 2-a)	10	Each	5,728.80	57,288.00
32	EUROPEAN WC Providing and fixing European white glazed earthen ware wash down W.C. Pan complete with and including the cost of white / black plastic seat (best quality) and lid with c.p. brass hinges and buffers, 3 gallons white glazed earthen ware low level flushing cistern with siphon fitting 1½" dia white porcelain enamelled flush bend ¾" dia and making requisite number of holes in walls plinth and floor for pipe connections and making good in cement 1:2:4 (foreign quality) Page No. 2, Item No. 5.	2	Each	4,440.70	8,881.40
33	LAVATORY BASIN Providing and fixing 24" X 18" lavatory basin in white glazed earthen ware complete with & including the cost of W.I. or C.I. cantilever brackets 6" built into walls painted white in two cats after a primary coat of red lead paint a pare of ½" dia rubber plug and chrome plated brass chain 1¼" dia malleable iron or brass unions and making requisite number of holes in walls, plinth and floor for pipe connections and making good in cement concrete 1:2:4 (foreign equivalent) Page No. 3, Item No. 10.	6	Each	4,928.00	29,568.00

**ESTABLISHMENT OF GOVT. POLYTECHNIC INSTITUTE FOR GIRLS, AT NORTH NAZIMABAD
TOWN, KARACHI (REMAINING WORK)**

CONSTRUCTION WORK BILL OF QUANTITIES (Plumbing Works)
Sindh Schedule of Rates 2012

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
34	BATHROOM ACCESSORIES Supply and fixing Bathroom Accessories set (7 Piece) including towel rod, brush holder, soap tray, shelf of approved design including cost of screws, nuts etc. complete (Master Brand or as recommended by Engineer-in-Charge). Page No. 19, Item No. 23	12	Each	10,322.40	123,868.80
35	BIB COCKS Supply and fixing C.P. Muslim Shower with double Bib Cock and ring pipe etc. complete (Page No. 19, Item No. 19-a)	12	Each	3,432.00	41,184.00
36	MUSLIM SHOWER Supply and fixing C.P. Muslim Shower with crystal head etc. complete (Page No. 19, Item No. 19-b)	12	Each	3,432.00	41,184.00
37	STOP COCK Supply and fixing concealed tee- stop cock of superior quality with c.p. head ½" dia (Page No. 18, Item No. 12-a)	12	Each	843.92	10,127.04
38	Supply & fixing long bib cock of superior quality with c.p.head ½" dia. (Ch-6, Page No. 19, Item No. 13-b)	12	Each	1,109.46	13,313.52
39	uPVC Pipe Providing and laying uPVC Pipes of Class 'D' fixing in trench including cutting, fitting and jointing with solven cement including testing with water to a head of 122 meter or 400 ft. (Page No. 24, Item No. 6).				
a	½" dia	300.00	Rft	12.00	3,600.00
b	¾" dia	200.00	Rft	19.00	3,800.00
c	1" dia	200.00	Rft	27.00	5,400.00
d	1¼" dia	300.00	Rft	33.00	9,900.00
e	1½" dia	350.00	Rft	43.00	15,050.00

**ESTABLISHMENT OF GOVT. POLYTECHNIC INSTITUTE FOR GIRLS, AT NORTH NAZIMABAD
TOWN, KARACHI (REMAINING WORK)**

CONSTRUCTION WORK BILL OF QUANTITIES (Plumbing Works)
Sindh Schedule of Rates 2012

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
40	GUN METAL VALVES Providing and fixing full way gun metal valves with wheels, threaded or flanged ends with rubber washers (standard pattern) Page No. 17, Item No. 4-b				
a	¾" dia	8	Each	227.92	1,823.36
b	1" dia	1	Each	271.92	271.92
41	RCC PIPE Providing following sizes RCC Pipe with collars class 'B' and digging the trench to required depth and fixing imposition including cutting, fitting and jointing with maxphalt composition & cement mortar 1:1 and testing with water pressure to a head of 4 feet above the top of the highest pipe and refilling with excavated stuff.				
a	4" dia (CH-X-Page No. 23, Item No. 2-b)	100.00	P.Rft	146.57	14,657.00
b	6" dia (CH-X-Page No. 23, Item No. 2-c)	150.00	P.Rft	199.25	29,887.50
42	MANHOLE Constructing manhole or inspection chamber for the required diameter of circular sewer and 3'-6" (1067 mm) dept with walls of BB in cement sand mortar 1:3 cement plastered 1:3, ½" thick inside of walls and 1" thick over benching and channel including fixing C.I. Manhole cover with frame of clear opening 1-½' X 1-½' of 1.75 cwt. (88.9 kg) embedded in plain CC 1:2:4 and fixing ¾" dia MS steps 6" wide projecting 4" from the face of wall at 12" CC duly painted etc. complete as per standard specifications and drawing. (4" to 12" dia 2' X 2' X 3'-6") Page No. CH-II, Page No. 46, Item No. P-a.	8	Each	14,748.00	117,984.00
Sub Total				Rs=	527,788.54
_____ above / below					
Cost of Plumbing Work (Scheduled Items)					

**ESTABLISHMENT OF GOVT. POLYTECHNIC INSTITUTE FOR GIRLS, AT NORTH NAZIMABAD
TOWN, KARACHI (REMAINING WORK)**

CONSTRUCTION WORK BILL OF QUANTITIES

Non Scheduled Items (Plumbing Work)

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
43	MUSLIM BIB COCK Providing and fixing chromium plated Muslim Bib Cock without Muslim Shower of (Master Make best quality). Complete in all respect as per instructions of Engineer-in-Charge.	7	Each		
44	FLOOR TRAP Providing and fixing approved make best quality PVC Floor Trap of 100 mm dia with stainless top cover (150 mm x 150 mm) and stainless steel grating with or without a vent arm complete with and including making requisite number of holes in walls, plinth and floor for pipe connection and making good in cement concrete 1:2:4. Complete in all respect as per instructions of Engineer-in-Charge.	12	Each		
45	GULLY TRAP Making CC 1:2:4 Gully Trap of 12" X 12" internal dimension, including excavation, CC 1:4:8 brick masonry, plaster, C.I. Cover and frame, number of holes etc. complete in all respect as per drawings, design and instructions of the Architect / Engineer-in-Charge.	7	Each		
46	CHECK VALVE Providing & fixing 1½" dia brass chuck valve complete with best quality kit of approved make. Complete in all respect as per instructions of the Engineer-in-Charge.	1	Each		
47	FOOT VALVE Providing & fixing best quality approved make required dia brass foot valve complete with kit local make. Complete in all respect as per instructions of the Engineer-in-Charge.	1	Each		

**ESTABLISHMENT OF GOVT. POLYTECHNIC INSTITUTE FOR GIRLS, AT NORTH NAZIMABAD
TOWN, KARACHI (REMAINING WORK)**

CONSTRUCTION WORK BILL OF QUANTITIES

Non Scheduled Items (Plumbing Work)

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
48	MONO BLOCK PUMPING SET Providing and fixing mono block pumping set complete with 2 HP pump 2900 RPM complete with AC 220 V single phase motor on a common base plate having suction & discharge 1-½" X 1-½" as approved including excavation, cast of RC foundation in ratio 1:2:4 S.R.C fairface including supply and installation of foundation bolts and nuts etc. of required dia meter. Complete in all respect as per instructions of the Engineer-in-Charge.	1	Each		
49	BRAS GATE VALVE Providing & fixing brass gate valve 1½" dia handle type imported make. Complete in all respect as per instructions of the Engineer-in-Charge.	2	Each		
50	MOTOR STARTER Providing and fixing manual operated star delta starter suitable for AC. Single phase 50 cycle supply upto 12/25 amps trip rating on a prepared board. Complete in all respect as per instructions of the Engineer-in-Charge.	1	Each		
51	3" DIA NON RETURN VALVE Providing & fixing 1½" dia non return valve. Complete in all respect as per instructions of the Engineer-in-Charge.	1	Each		
52	ELECTRIC WATER COOLER Providing and fixing capacity 20 US gallons (MECO Model ME-30SS) electric water coolers totally rust proof, pressure type with stainless steel body as manufactured by MECO including 3 stage water filter (mabzi or equalvent) as approved by the Engineer.	1	Each		
Cost of Plumbing Works (Non-Schedule Items)				Rs=	